

AMENDMENTS TO THE DRAWINGS:

The attached replacement drawing sheet (attached hereto as "**Appendix B**") include changes to Figure 4. This sheet replaces the original sheet for Figure 4.

Also, attached as "**Appendix A**" is a Marked-up Drawing to show changes made to Figure 4.

REMARKS

The present amendment is in response to the Office action dated April 19, 2005, where the Examiner has allowed claims 46-53, rejected claims 1-15, 19-31, 35-37, 40, 41, 43-45, 54-60, 64 and 65, and objected to claims 16-18, 32-34, 38, 39, 42 and 61-63. By the present amendment, claims 1, 2, 18, 22-24, 42, 56, 57, 59-61, 64 and 65 have been cancelled without prejudice to further prosecution, claims 3, 10, 11, 13-15, 19, 20, 25, 32, 33, 35-37, 40, 41, 43, 44, 54, 55, 58, 62 and 63 have been amended, and claim 66 has been added. Accordingly, claims 3-17, 19-21, 25-41, 43-55, 58, 62, 63 and 66 remain in the present application. Allowance of remaining claims, 3-17, 19-21, 25-41, 43-55, 58, 62, 63 and 66 in view of the amendments and the following remarks is respectfully requested.

A. Objection to the drawings

The Examiner has objected to Figure 4 under 37 CFR 1.84(p)(5) for failing to include a reference label "406." The Examiner has also objected to the drawings under 37 CFR 1.83(a) for failing to show the dielectric interposed between the counterpoise and the radiator.

Responsive to the Examiner's objections, Applicant has amended Figure 4 to correct a number of mislabeled references. More particularly, duplicate reference label "402" has been replaced with --404-- and mislabeled reference label "404" has been replaced with --406-- consistent with the specification at page 10, lines 12-15. Applicant has also added reference label --208-- for the dielectric interposed between the counterpoise 400 and the radiator 210 in Figure 4, consistent with the specification at

page 9, lines 17-18. No new matter has been added. Accordingly, Applicant respectfully submits that the drawings now meet the requirements under 37 CFR 1.84(p)(5) and 37 CFR 1.83(a).

B. Corrections to the specification

The specification has been amended to correct typographical errors and to conform with the drawings. Specifically, on page 7, line 23, the non-fractal geometry section was misidentified as "250" and has now been corrected as --252--. Also, on page 11, lines 8, 15 and 18, counterpoise reference numbers have been included to conform with the drawings. No new matter has been added.

C. Objection to the claims

The Examiner has objected to claims 19 and 43 for informalities related to lack of proper antecedent basis. Applicant has amended claims 19 and 43 in response. Specifically, currently amended claim 19 now recites "the at least one radiator non-fractal geometry section" consistent with the previously recited element in base claim 3, and currently amended claim 43 now recites "the at least one radiator fractal geometry section" consistent with the previously recited element in base claim 25. Applicant respectfully submits that the objections to claims 19 and 43 have now been overcome.

D. Rejection of the claims under 35 USC §112

The Examiner has rejected claims 10-12 under 35 USC §112 as being indefinite and lacking of clarity regarding the limitation of “fractal geometry”. Applicant has amended claims 10 and 11 in response. More particularly, currently amended claim 10 now refers to “a second pseudo-fractal geometry”, and currently amended claim 11 now refers to “a second fractal geometry”. Though currently amended claims 10 and 11 refer to “first” and “second” geometries to clarify antecedent basis, they do not limit the geometries corresponding to the radiator and the geometries corresponding to the counterpoise as being the same, or as being different.

Since original claim 12 was rejected based on its dependence upon formerly rejected claim 11, and since currently amended claim 11 now overcomes the former rejection, Applicant respectfully submits the rejections of claims 10-12 have now been traversed.

E. Allowable claims

Claims 46-53 stand allowed. Applicant appreciates the Examiner’s statement of allowance regarding claims 46-53.

On page 6, item 11 of the Office action in the Allowable Subject Matter section, the Examiner states that claims 10-12 would be allowed if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in the Office action. Applicant appreciates the Examiner’s statement of allowance regarding 10-12. As discussed above, Applicant has redrafted claims 10 and 11 to overcome the rejections under 35 U.S.C. 112. Further, as discussed above, Applicant submits that claim 12 is also in a condition for allowance.

On page 6, item 12 of the Office Action in the Allowable Subject Matter section, the Examiner states that claims 16-18, 32-34, 38, 39, 42 and 61-63 would be allowed if rewritten in independent form including all of the limitations of the base claims and any intervening claims. Applicant appreciates the Examiner's statement of allowance regarding claims 16-18, 32-34, 38, 39, 42 and 61-63, and has redrafted currently amended independent claims 3, 25, and 54 accordingly. More particularly, currently amended independent claims 3, 25, and 54 incorporate the limitations of previously allowable claims 18, 42, and 61 (along with intervening claims 56, 57 and 59), respectively. Claims 4-17 and 19-21 now depend on currently amended independent claim 3 and any intervening claims. Claims 26-41 and 43-45 now depend on currently amended independent claim 25 and any intervening claims. Claims 55, 58, 62 and 63 now depend on currently amended independent claim 54 and any intervening claims. Accordingly, applicant respectfully submits that claims 3-17, 19-21, 25-41, 43-45, 54-55, 58, 62 and 63 are now in condition for allowance.

E. Added claim

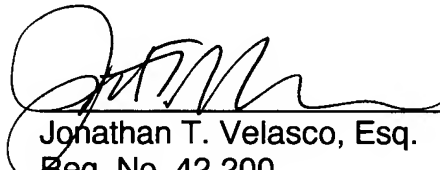
Independent method claim 66 has been added. New claim 66 is a method claim that recites limitations that parallel currently amended allowable apparatus claim 3 (former claim 18). Accordingly, applicant respectfully submits that new claim 66 should also be allowed.

F. Conclusion

For all the foregoing reasons, a Notice of Allowance directed to claims 3-17, 19-21, 25-41, 43-55, 58, 62, 63 and 66 remaining in the present application is respectfully requested.

Respectfully Submitted;

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